Appl. No.: 09/788,496

Art Unit: 2612

Amendment dated August 24, 2004

Reply to Office Action of May 24, 2004

Page 11 of 18

REMARKS

Applicant appreciates the Examiner's thorough consideration provided in

the present application. Claims 1-12 are currently pending in the instant

application. Claims 1-4 have been amended and claims 5-12 have been added

for the Examiner's consideration. Claims 1, 2, 4, 6 and 10-12 are independent.

The subject matter of additional claims 5-12 is fully supported by the

original written description, including but not limited to, claims 1-4, FIGs. 3(a)-

3(b) and the supporting description found on pages 8-10 of the present

application.

Priority

Applicant appreciates the Examiner's indication of acceptance of the

corresponding certified priority document for the present application.

Drawings

The Examiner has objected to the drawings due to the presence of alleged

informalities with the claims. This objection is respectfully traversed.

Applicant has amended FIG. 2 as requested by the Examiner and has

enclosed one (1) replacement sheet of formal drawings incorporating the

Appl. No.: 09/788,496

Art Unit: 2612

Amendment dated August 24, 2004

Reply to Office Action of May 24, 2004

Page 12 of 18

requested change. Accordingly, this objection has been obviated and/or

rendered moot.

Specification

The title of the invention has been objected to by the Examiner. This

objection is respectfully traversed. As requested by the Examiner, Applicant

has amended the title of the invention to read Camera for Automatically

Adjusting Image Brightness for an Image on a Display. Accordingly, this

objection has been obviated and/or rendered moot.

Claim Objections

Applicant appreciates the Examiner's assistance with respect to the

claims. Claims 2 and 4 have been objected to as allegedly containing minor

informalities. This objection is respectfully traversed.

In light of the foregoing amendments to the claims, Applicant respectfully

submits that these rejections have been obviated and/or rendered moot.

However, Applicant respectfully submits that the foregoing amendments have

been made to merely clarify the minor informalities identified by the Examiner.

Without conceding the propriety of the Examiner's rejections, but merely

to timely advance the prosecution of the application, Applicant has

Appl. No.: 09/788,496

Art Unit: 2612

Amendment dated August 24, 2004

Reply to Office Action of May 24, 2004

Page 13 of 18

incorporated the changes recommended by the Examiner. However, Applicant

submits that the requested changes do not appear to either raise a substantial

question of the patentability of the claimed invention nor do they narrow the

scope of the claimed invention.

Claim Rejections Under 35 U.S.C. § 102

Claims 1-4 have been rejected under 35 U.S.C. § 102(b) as being

allegedly anticipated by Lee (U.S. Patent No. 5,546,134). This rejection is

respectfully traversed.

In light of the foregoing amendments to the claims, Applicant respectfully

submits that all of the rejections have been obviated and/or rendered moot.

Without conceding the propriety of the Examiner's rejection, but merely to

expedite the prosecution of the present application, Applicant has amended

claims 1, 2 and 4 to clarify the claimed invention for the benefit of the

Examiner. However, Applicant submits that this claim has been amended to

merely explicitly state those features that were already implicitly claimed in the

original claims. Accordingly, this rejection has been obviated and/or rendered

moot.

Specifically, Applicant submits that the prior art of record fails to teach

or suggest each and every limitation of the unique combination of limitations of

Appl. No.: 09/788,496

Art Unit: 2612

Amendment dated August 24, 2004

Reply to Office Action of May 24, 2004

Page 14 of 18

the claimed invention. With respect to claim 1, Applicant submits that the

prior art of record fails to teach or suggest each and every limitation of the

unique combination of limitations of the claimed invention, including the

feature(s) of: "wherein the camera automatically corrects the video signals

according to the determined brightness level without lowering an SN ratio."

Accordingly, this rejection should be withdrawn.

With respect to claim 2, Applicant submits that the prior art of record

fails to teach or suggest each and every limitation of the unique combination of

limitations of the claimed invention, including the feature(s) of: "a correcting

part that automatically corrects the video signals according to the correction

amount determined by the correction amount determining part, wherein the

video signals are corrected according to the determined brightness level from

the brightness determining part without lowering an SN ratio." Accordingly,

this rejection should be withdrawn.

With respect to claim 4, Applicant submits that the prior art of record

fails to teach or suggest each and every limitation of the unique combination of

limitations of the claimed invention, including the feature(s) of: "a gain

controlling part that controls a gain of the variable gain amplifier according to

the brightness level of the video signals, wherein the gain of the variable gain

amplifier is controlled to an optimum gain value falling within an effective gain

Appl. No.: 09/788,496

Art Unit: 2612

Art Unit: 2012

Amendment dated August 24, 2004 Reply to Office Action of May 24, 2004

Page 15 of 18

range and which does not permit a lowering of an SN ratio." Accordingly, this

rejection should be withdrawn.

In the claimed invention, automatic adjustment of the brightness of an

image displayed on a displaying device without lowering an SN ratio is a unique

characteristic heretofore not taught or described in the prior art of record. The

Examiner is requested to review both embodiments described in the present

application in greater detail in connection with FIGs. 1 and 4; and FIGs. 5-6.

Without conceding the propriety of the Examiner's rejection, but merely

to expedite the prosecution of the present application, Applicant has amended

1 and 2 to clarify the claimed invention for the benefit of the Examiner.

Specifically, the claimed invention of claims 1 and 2 includes automatic

adjustment of the brightness of an image without lowering an SN ratio.

With respect to claim 4, the feature of automatic adjustment of the

brightness of an image without lowering an SN ratio is also a unique feature of

the claimed invention. Accordingly, this rejection has been obviated and/or

rendered moot.

With respect to additional claims 6-9, the use of a variable gain amplifier

by Lee is different than the variable gain amplifier described in the claimed

invention. In addition, Lee does not teach or suggest the elements of the image

processing circuit and the use of the EEPROM to look up a correction value.

Appl. No.: 09/788,496

Art Unit: 2612

Amendment dated August 24, 2004

Reply to Office Action of May 24, 2004

Page 16 of 18

With respect to additional claims 8 and 9, the variable gain amplifier (element

50 in FIG. 6) of Lee is positioned after the A/D converter (element 10 in FIG. 6),

and the variable gain amplifier in the claimed invention is positioned before the

A/D converter (see FIG. 6 of the present application).

In Lee, an image enhancement circuit adaptively controls the brightness

and contrast of a video input signal according to its average brightness level.

The circuit calculates the average brightness level during a predetermined

period with respect to a video signal to be input through an input terminal and

controls the brightness and contrast of the video input signal according to the

calculated average brightness level (see Abstract, FIG. 3 and supporting

discussion of Lee at col. 3, lines 23-35). Applicant submits that this gradation

technique suffers from distinct disadvantages that are addressed by the unique

combination of limitations of the claimed invention (see page 1 and page 2 of

the present application).

In Lee, if the inputted signal is relatively low, the output level is limited to

a maximum of the input level (see dotted lines in FIG. 3 of Lee extending from

m-m). Accordingly, if the input level is low, the resulting display based on the

average brightness level of the inputted signal will be relatively dark. In

contrast, and as seen in FIGs. 3(a) and 3(b) of the present application, the

claimed invention of claim 10 provides a correction signal (offset) which raises

Appl. No.: 09/788,496

Art Unit: 2612

Amendment dated August 24, 2004

Reply to Office Action of May 24, 2004

Page 17 of 18

the brightness levels of the video signal (see FIG. 3(b)) if the brightness levels of

the video signal are low (as shown in FIG. 3(a)).

We also note that the description provided at pages 8-9 (first

embodiment) and page 10, line 19 through page 12 would also support two

sets of method claims. Therefore, we suggest adding method claims in

response to this office action if protection for the methods described at pages 8-

12 is desired in this patent application.

Accordingly, reconsideration and withdrawal of the claim rejections are

respectfully requested. As to the dependent claims, Applicant respectfully

submits that these claims are allowable due to their dependence upon an

allowable independent claim, as well as for additional limitations provided by

these claims.

CONCLUSION

Since the remaining references cited by the Examiner have not been

utilized to reject the claims, but merely to show the state-of- the-art, no further

comments are deemed necessary with respect thereto.

All the stated grounds of rejection have been properly traversed and/or

rendered moot. Applicant therefore respectfully requests that the Examiner

reconsider all presently pending rejections and that they be withdrawn.

Appl. No.: 09/788,496

Art Unit: 2612

Amendment dated August 24, 2004

Reply to Office Action of May 24, 2004

Page 18 of 18

It is believed that a full and complete response has been made to the

Office Action, and that as such, the Examiner is respectfully requested to send

the application to Issue.

In the event there are any matters remaining in this application, the

Examiner is invited to contact Matthew T. Shanley, Registration No. 47,074 at

(703) 205-8000 in the Washington, D.C. area.

If necessary, the Commissioner is hereby authorized in this, concurrent,

and future replies, to charge payment or credit any overpayment to Deposit

Account No. 02-2448 for any additional fees required under 37 C.F.R. §§1.16 or

1.17; particularly, extension of time fees.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

By

Marc S. Weiner Reg. No. 32,181

MSW/MTS/mmi

P. O. Box 747

Falls Church, VA 22040-0747

(703) 205-8000

Attachment